Message

From: Bunker, Byron [bunker.byron@epa.gov]

Sent: 9/10/2016 2:13:58 PM

To: Cohen, Janet [cohen.janet@epa.gov]; Wehrly, Linc [wehrly.linc@epa.gov]

CC: Snyder, Jim [Snyder.Jim@epa.gov]; Ball, Joel [ball.joel@epa.gov]; Wright, DavidA [Wright.DavidA@epa.gov]; Dalton,

Joel [Dalton.Joel@epa.gov]; Ott, William [ott.william@epa.gov]

Subject: FW: DUH publishes first set of their PEMS results

Attachments: ENG EKI-report NOx and CO2-PEMS-measurements 092016.docx; ATT00001.htm; ENG Hintergrundpapier_PK

07092016_final_16h49.docx; ATT00002.htm; ENG Press Release.docx; ATT00003.htm

From: Grundler, Christopher

Sent: Friday, September 09, 2016 3:40 PM **To:** Bunker, Byron bunker.byron@epa.gov

Subject: Fwd: DUH publishes first set of their PEMS results

FYI

Christopher Grundler, Director Office of Transportation and Air Quality U.S. Environmental Protection Agency 202/564-1682 (Washington DC) 734/214-4207 (Ann Arbor MI)

Begin forwarded message:

From: "axel Friedrich" <axel.friedrich.berlin@gmail.com>

To: "Catherine Witherspoon" < <u>Catherine@cwspoon.net</u>>, "Croes, Bart@ARB"

< bart.croes@arb.ca.gov>, "Michael P. Walsh" < mpwalsh@igc.org>, "Curtis Moore"

<camoore@erols.com>, "Drew Kodjak" <drew@theicct.org>, "Alan C. Lloyd"

<alloyd@theicct.org>, "Grundler, Christopher" <grundler.christopher@epa.gov>, "margo oge"

<<u>margo.oge@gmail.com</u>>, "<u>rcorey@arb.ca.gov</u>" <<u>rcorey@arb.ca.gov</u>>, "John Shears"

< shears@ceert.org>, "vjw@ceert.org" < vjw@ceert.org>, "Christoph Wolff"

christoph.wolff@europeanclimate.org, "Margarita Parra" MParra@hewlett.org, "Bert

Fabian" < Bert. Fabian@unep.org>, "Justin Guay" < JGuay@packard.org>, "Hal Harvey"

<hal@energyinnovation.org>, "Youngil Jeong" <yjeong@kimm.re.kr>, "Gianni Lopez"

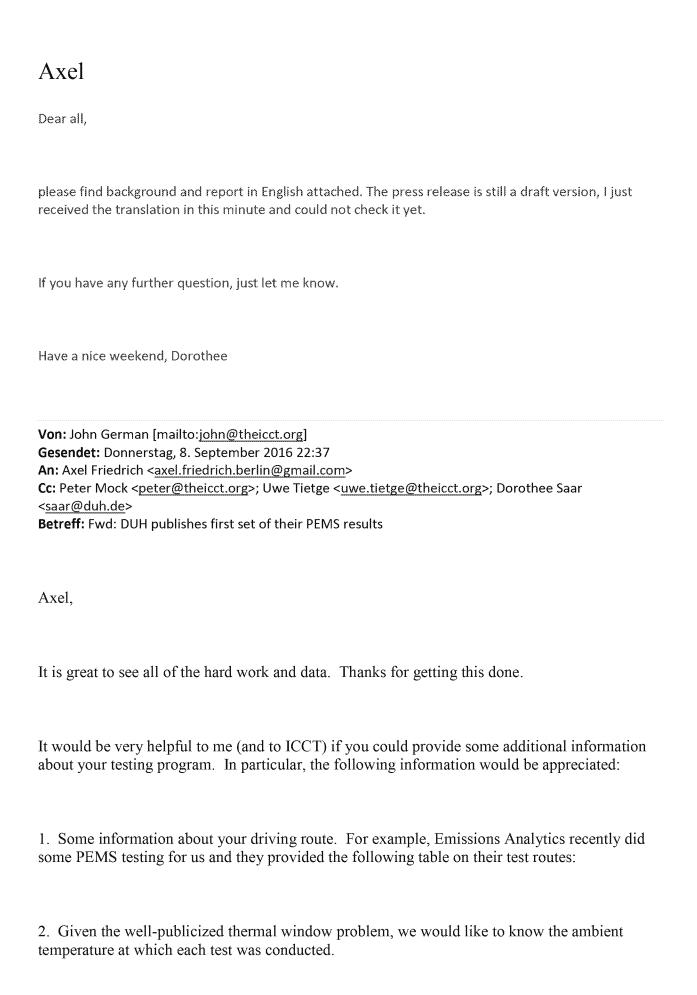
<glopez@cmmolina.cl>

Subject: Fwd: DUH publishes first set of their PEMS results

Dear friends,

the following press release and results below. I am very proud to present the data of 39 vehicles I measured with my team in the last 4 month. Each vehicle was tested ten times at the same route. If you have any question please come back to me.

Greetings from the very warm Berlin.



3. Type-approval CO2 values, as it would be valuable to compare your test results against them.

John

Begin forwarded message:

From: Peter Mock <peter@theicct.org>

Subject: DUH publishes first set of their PEMS results

Date: September 7, 2016 at 6:10:40 AM EDT

To: Yoann Bernard < y.bernard@theicct.org >, Muncrief Rachel < rachel@theicct.org>, John German < john@theicct.org>, Anup Bandivadekar < anup@theicct.org>, Francisco Posada Sanchez < francisco@theicct.org>, Uwe Tietge < uwe.tietge@theicct.org>

Cc: Chelsea Baldino < chelsea.baldino@theicct.org>

DUH today published their PEMS results for 36 diesel and 3 gasoline cars that they tested over the past few months. Those vehicles were tested over the summer months (May-Sep). DUH founded a new institute, called "Emissions Control Institute" (EKI in German), lead by Axel Friedrich. Two of the diesel cars were found to meet the Euro 6 limit under real-driving conditions: an Audi Q3 and a Mercedes E 220d (the Mercedes was provided by the manufacturer). A VW T6 LCV also met the Euro 6 limit.

Here the press release (all materials in German): http://www.duh.de/pressemitteilung.html?&tx_ttnews[tt_news]=3925

A report with more details (note the table on p. 2/3): http://www.duh.de/uploads/media/EKI-Bericht_NOx_und_CO2-PEMS-Messungen_DUH.pdf

A sketch of the 31 km testing route (around Axel's house): http://www.duh.de/uploads/media/Grafik_Teststrecke_PEMS-Messungen_DUH.pdf

I also cc Chelsea, in case you would like to include those additional measurement points for your upcoming paper.

